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ENCKE'S COMET.

LIVERPOOL. Equatoreal. (Mr. Hartnup.)

1852.	Green. M.T. h m s	R.A. h m s	N.P.D. ° ′ ″	Compd—Obsd. R.A. s	Compd—Obsd. N.P.D. ″	Star of Comp.	
Jan. 11	7 14 17·4	23 4 6·86	86 2 3·0	−0·48	+6·3	B.A.C.	8105
16	6 58 32·2	23 10 1·69	85 34 60·7	·81	−4·3	—	8177
	7 18 30·4	2·68	57·3	·75	5·8	—	—
	7 38 28·4	3·38	56·8	·40	10·3	—	—
17	6 49 52·9	23 11 16·11	85 28 62·5	·24	2·4	—	—
	7 9 52·0	17·85	63·7	·90	8·7	—	—
	7 29 50·6	18·91	57·6	·89	7·8	—	—
25	6 41 15·3	23 22 11·10	84 35 33·3	·17	3·9	—	8233
	7 11 13·7	13·41	21·7	·63	1·5	—	—
	7 33 12·3	14·63	22·4	−0·51	−8·9	—	—

The observations are corrected for refraction and parallax. The computed places were deduced from the ephemeris circulated by the Superintendent of the *Nautical Almanac.*

The following are the assumed *mean* places of the stars of comparison for Jan. 0·1852.

	R.A. h m s	N.P.D. ° ′ ″	Authority.
B.A.C. 8105	23 9 29·58	87 31 31·9	Greenwich 12-years' Catalogue.
8177	23 20 27·71	84 26 0·0	— — —
8233	23 32 20·40	85 10 30·9	Greenwich Observations, 1849

The observation on the 11th was obtained during a very brief interval between clouds. The appearance of the comet was that of a faint patch of nebulous light of between 1′ and 2′ diameter. Notwithstanding its proximity to the moon on the 25th, it was very much brighter on that day than it was on the 11th.

MARKREE. Large Equatoreal. (Mr. Graham.)

	G.M.T. 1852.	R.A. h m s	Decl. ° ′ ″		
Jan.	17·30475	23 11 17·83	+4 31 26·2	10	*a, b*
	20·29675	23 15 11·68	+4 50 18·7	10	*c*

			R.A. h m s	Decl. ° ′ ″
a	B.A.C.	8127	23 12 46·59	+4 34 19·5
b	Weisse, xxiii, 252		23 12 36·59	4 30 14·3
c	Lalande,	45753	23 14 29·43	+4 41 35·8

The comet's places have been corrected for parallax, not for aberration.

These give for the correction of the *Nautical Almanac* places,

		s	″
Jan.	17	+0·28	+18·0
	20	+0·31	+19·5

" On the 17th a third star of comparison was noted, but the place deduced from it,

h m s	° ′ ″
23 11 16·95	4 31 24·6

turned out to be nearly one second of time different in right ascen-

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sion from those obtained by comparison with the other two stars, when I used Bessel's determination of the former, viz.,

1852·0	h m s	° ′ ″
Weisse, xxiii, 229	23 11 17·70	4 36 8·7

"This circumstance would have been puzzling had there been no other authority for the star; but, fortunately, it occurs both in Lalande and Piazzi as follows:—

1852·0	h m s	° ′ ″
Lalande, 45638	23 11 16·57	4 36 14·3
Piazzi, xxiii, 43	16·20	13·0

"There can be little doubt, therefore, that the star has a secular proper motion in right ascension of upwards of two seconds. I assumed, in the comparison, that the places given by Mr. Stratford in his ephemeris are *apparent*. At the time of the observation on the 17th, there was an impression that whatever little condensation of light existed was not central, but north-east of the centre. I cannot say, however, that this was confirmed on the 20th. On the latter occasion there were small stars in the coma, and I feared there were others in the brighter parts; the agreement of the observations leads me to hope such was not the case. Last night cleared up, but not early enough to see the comet."

Mr. Graham got observations of Encke's Comet on the 23d and 24th inst., and states that the proximity of a ninth-magnitude star troubled him very much; its light weakened that of the comet considerably. He adds that he never before had been so much impressed with the vapoury nature of such bodies, and that one could readily imagine that the comet of Encke could be compressed into the compass of a nutshell.

D'ARREST'S COMET,

With different Ring-Micrometers applied to the 5-foot Fraunhofer.

Bonn. (Professor Argelander.)

	Bonn M.T.	R.A.	Decl.
1851.	h m s	° ′ ″	° ′ ″
July 3	13 13 2·3	14 31 33·6	+10 47 3·0
5	13 37 41·9	16 42 41·2	49 3·1
6	13 21 9·8	17 46 6·6	49 20·0
22	12 26 54·0	33 43 35·7	+10 4 42·9
24	13 11 48·5	35 33 50·4	+ 9 53 7·5
25	12 50 52·8	36 26 20·2	47 1·4
27	13 5 36·6	38 11 3·8	33 36·2
28	12 46 56·2	39 1 27·5	+ 9 26 24·4
Aug. 2	12 42 6·5	43 5 45·5	+ 8 46 50·4
5	12 55 41·5	45 23 35·5	20 7·2
	13 25 0·4	84·3	8·3
7	13 32 49·8	46 52 23·3	+ 8 1 12·2

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